

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P673362

Luminaire Tested: **CCP-SA-1A-722-U-T4FT-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673362  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1A-722-U-T4FT-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ T4FT distribution lens and House Side Shield  
Light Source: (16) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1447 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - U0 - G1

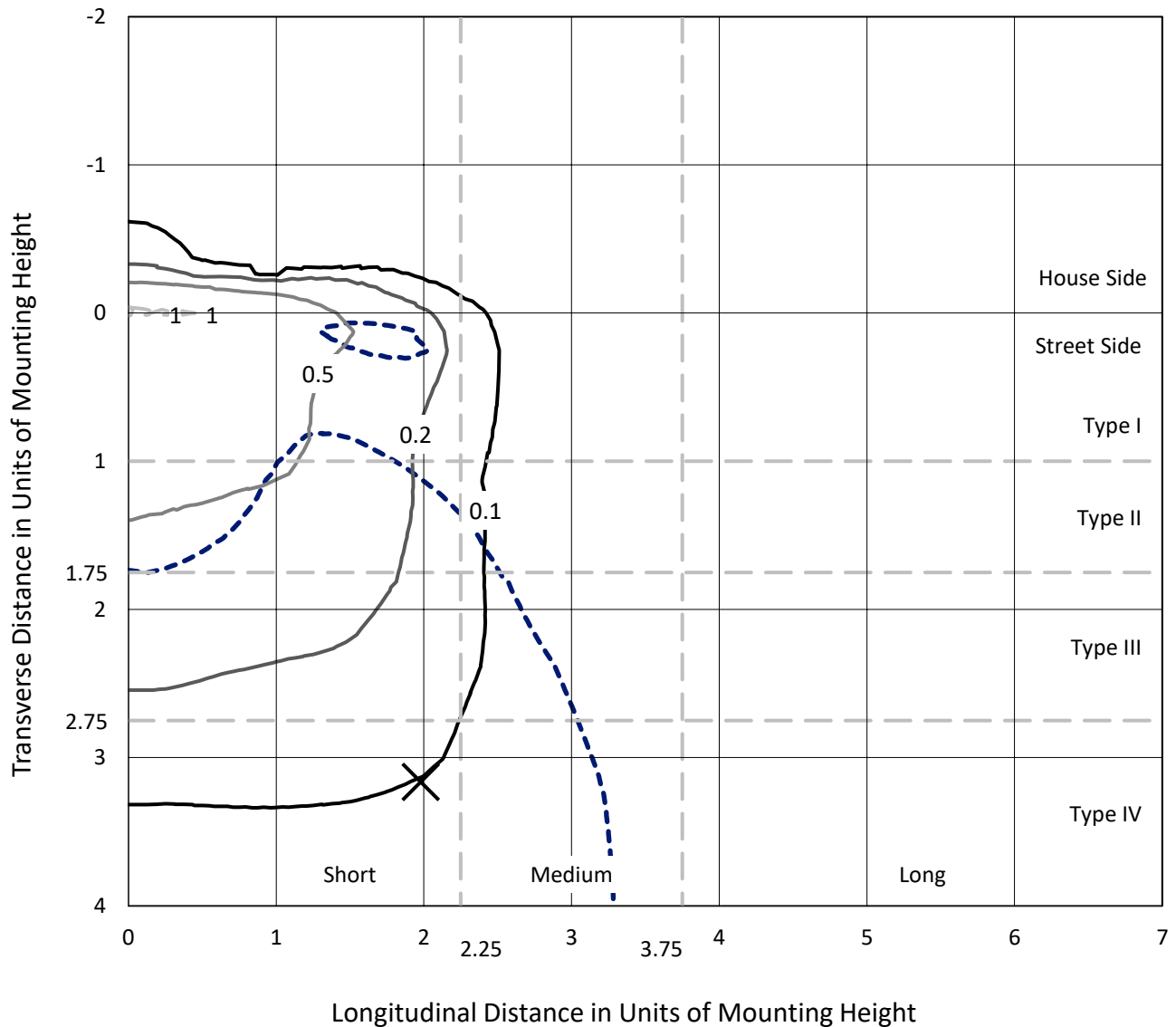
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

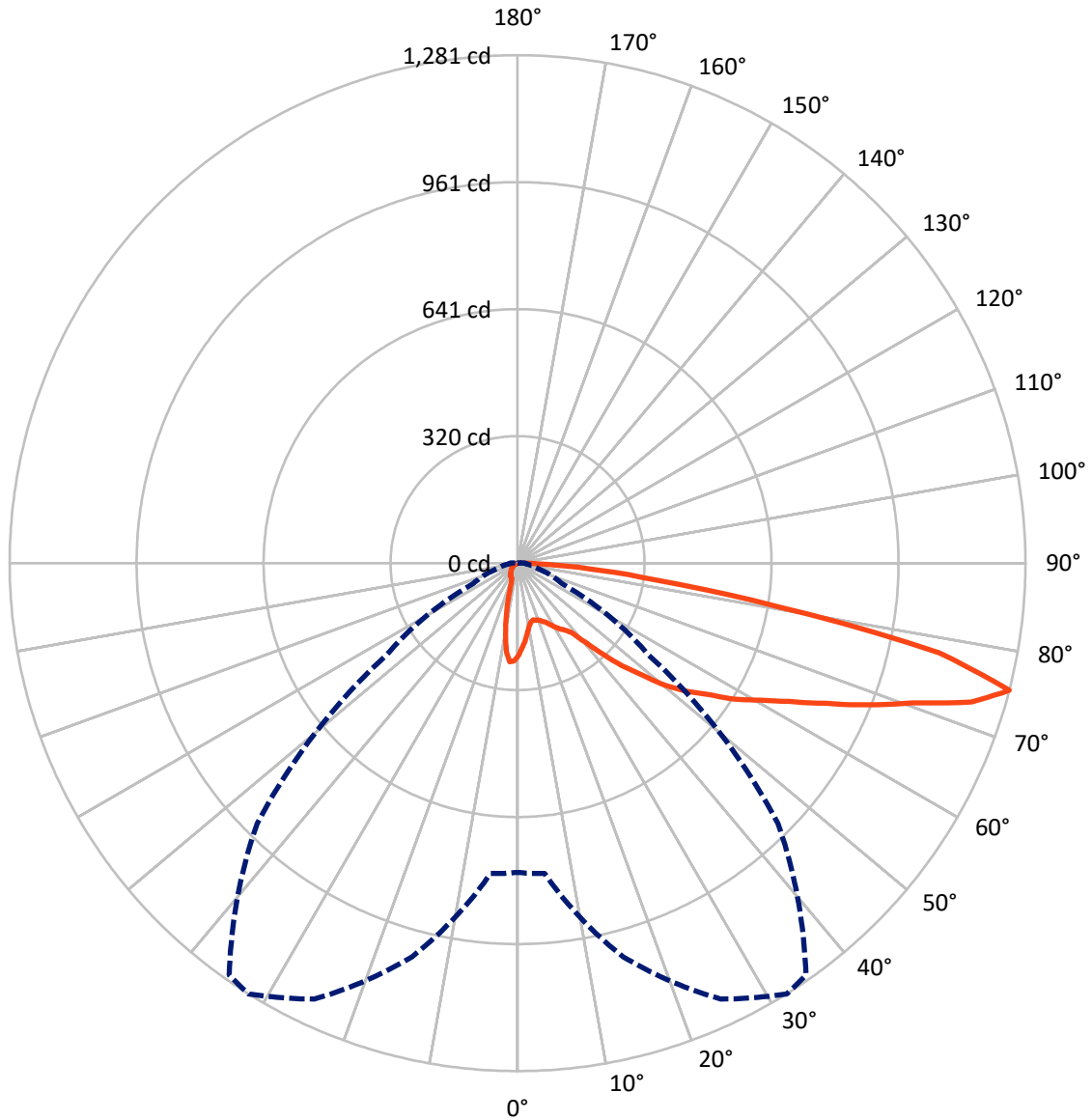
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 156.3    | 0.0    | 156.3  |
|                    | % Fixture | 10.8     | 0.0    | 10.8   |
| <b>Street Side</b> | Lumens    | 1290.7   | 0.0    | 1290.7 |
|                    | % Fixture | 89.2     | 0.0    | 89.2   |
| <b>Total</b>       | Lumens    | 1447.0   | 0.0    | 1447.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 20.5   | 1.4       |
| 10°-20°   | 46.6   | 3.2       |
| 20°-30°   | 69.8   | 4.8       |
| 30°-40°   | 107.1  | 7.4       |
| 40°-50°   | 187.4  | 12.9      |
| 50°-60°   | 292.9  | 20.2      |
| 60°-70°   | 378.6  | 26.2      |
| 70°-80°   | 308.4  | 21.3      |
| 80°-90°   | 35.7   | 2.5       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 1447.0 | 100.0     |
| 0°-180°   | 1447.0 | 100.0     |



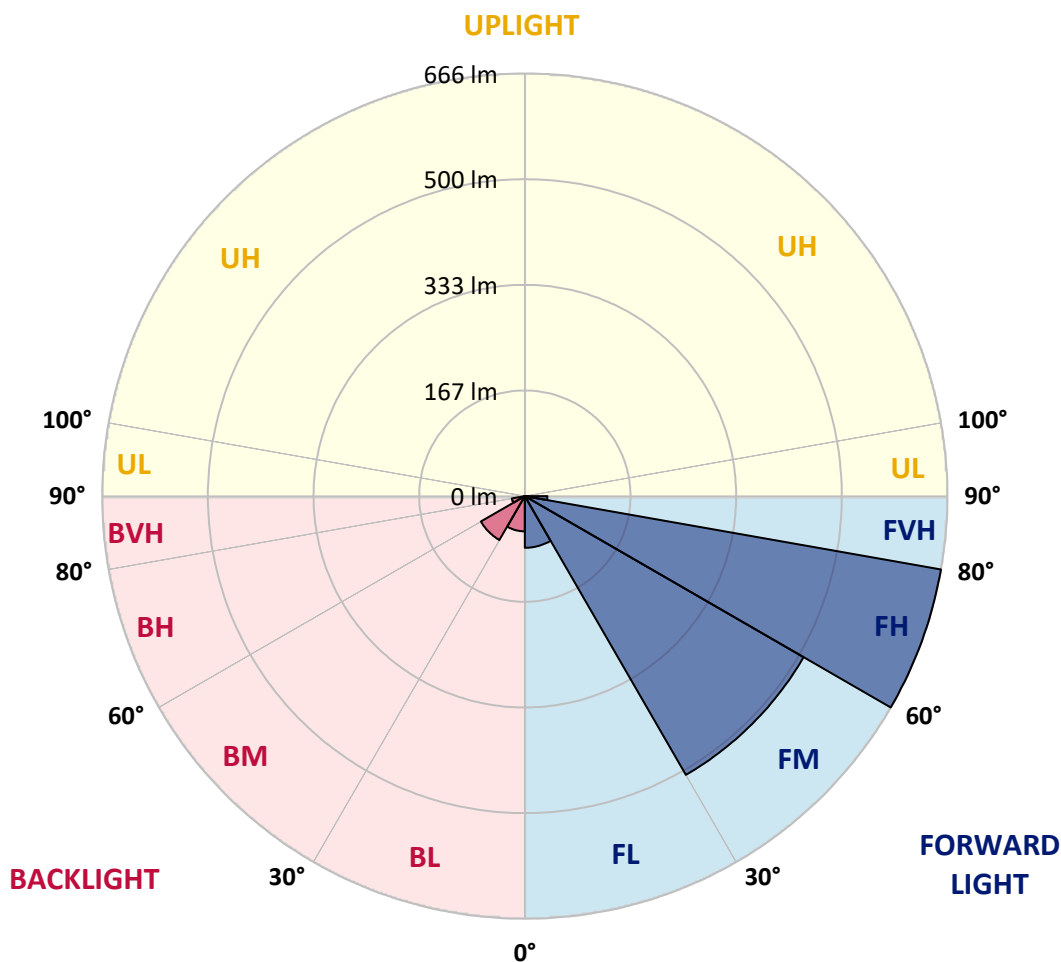
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 81.4   | 5.6       |                         |      |         |
| FM (30°-60°)   | 507.4  | 35.1      |                         |      |         |
| FH (60°-80°)   | 666.2  | 46.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 35.7   | 2.5       |                         |      | G1/100  |
| BL (0°-30°)    | 55.5   | 3.8       | B0/110                  |      |         |
| BM (30°-60°)   | 80.0   | 5.5       | B0/220                  |      |         |
| BH (60°-80°)   | 20.8   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°    | 25°    | 32°    | 35°    | 45°    | 55°   | 65°   | 75°   | 85°   |
|-------|-------|-------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°    | 233.6 | 233.6 | 233.6  | 233.6  | 233.6  | 233.6  | 233.6  | 233.6 | 233.6 | 233.6 | 233.6 |
| 2.5°  | 209.5 | 212.5 | 212.1  | 214.0  | 214.4  | 215.5  | 218.1  | 218.1 | 225.5 | 230.7 | 234.0 |
| 5°    | 190.6 | 188.8 | 189.5  | 191.7  | 197.3  | 196.9  | 203.2  | 206.6 | 215.5 | 222.9 | 230.7 |
| 7.5°  | 167.3 | 166.9 | 168.4  | 173.6  | 177.6  | 181.0  | 187.7  | 196.2 | 208.1 | 219.2 | 232.9 |
| 10°   | 152.4 | 151.7 | 154.7  | 156.1  | 161.0  | 163.2  | 173.6  | 186.9 | 201.0 | 217.0 | 232.9 |
| 12.5° | 149.1 | 146.5 | 148.0  | 147.6  | 152.1  | 153.2  | 163.2  | 179.5 | 196.6 | 216.2 | 235.9 |
| 15°   | 150.9 | 149.1 | 147.6  | 147.6  | 148.7  | 149.5  | 160.2  | 174.7 | 194.0 | 217.3 | 242.5 |
| 17.5° | 156.9 | 155.8 | 151.3  | 146.9  | 151.7  | 151.7  | 158.4  | 173.6 | 194.3 | 220.7 | 250.7 |
| 20°   | 163.9 | 162.8 | 155.0  | 149.8  | 153.2  | 156.9  | 163.9  | 176.2 | 195.4 | 223.3 | 263.3 |
| 22.5° | 171.7 | 171.7 | 161.0  | 155.0  | 159.5  | 159.8  | 172.5  | 184.3 | 199.9 | 229.9 | 271.5 |
| 25°   | 181.4 | 180.6 | 170.2  | 163.6  | 165.0  | 169.1  | 180.6  | 193.2 | 208.1 | 239.2 | 286.7 |
| 27.5° | 194.0 | 192.9 | 180.6  | 173.9  | 175.8  | 180.2  | 193.2  | 205.8 | 215.5 | 242.9 | 299.7 |
| 30°   | 204.3 | 203.2 | 193.2  | 183.2  | 187.3  | 191.4  | 206.6  | 217.7 | 224.7 | 250.0 | 314.5 |
| 32.5° | 206.6 | 204.7 | 198.0  | 193.6  | 198.0  | 205.8  | 217.7  | 229.2 | 240.0 | 267.8 | 342.7 |
| 35°   | 232.2 | 225.5 | 208.1  | 201.0  | 207.7  | 210.3  | 229.9  | 250.3 | 260.7 | 281.9 | 374.2 |
| 37.5° | 281.1 | 274.8 | 251.8  | 232.2  | 222.9  | 225.9  | 251.4  | 276.7 | 286.7 | 308.2 | 408.7 |
| 40°   | 341.2 | 330.8 | 306.3  | 280.0  | 261.1  | 257.4  | 274.1  | 311.2 | 320.8 | 341.2 | 453.9 |
| 42.5° | 409.8 | 399.8 | 362.0  | 330.8  | 311.5  | 306.7  | 309.3  | 351.2 | 359.4 | 371.6 | 483.6 |
| 45°   | 459.1 | 453.9 | 411.3  | 383.5  | 368.3  | 363.1  | 356.8  | 395.0 | 405.4 | 409.4 | 526.6 |
| 47.5° | 487.7 | 484.0 | 460.2  | 441.3  | 420.9  | 415.4  | 419.5  | 455.8 | 448.8 | 452.1 | 567.8 |
| 50°   | 525.9 | 516.2 | 484.0  | 489.9  | 485.8  | 484.4  | 491.4  | 507.3 | 497.0 | 487.3 | 612.7 |
| 52.5° | 556.7 | 539.6 | 517.0  | 531.5  | 537.8  | 543.3  | 568.2  | 580.0 | 533.7 | 518.8 | 641.6 |
| 55°   | 575.6 | 559.3 | 565.2  | 578.6  | 585.2  | 610.8  | 640.1  | 631.2 | 557.8 | 544.1 | 680.2 |
| 57.5° | 592.6 | 593.8 | 609.7  | 613.8  | 647.9  | 652.4  | 708.7  | 679.8 | 574.8 | 567.1 | 695.4 |
| 60°   | 633.8 | 629.7 | 642.7  | 669.0  | 701.7  | 726.5  | 780.3  | 712.4 | 583.4 | 578.9 | 691.3 |
| 62.5° | 708.0 | 682.8 | 687.2  | 720.6  | 768.4  | 795.5  | 821.5  | 727.3 | 581.2 | 580.8 | 679.1 |
| 65°   | 802.2 | 773.3 | 759.9  | 791.1  | 853.0  | 891.2  | 867.8  | 744.0 | 566.3 | 576.7 | 633.4 |
| 67.5° | 880.4 | 880.8 | 856.0  | 873.4  | 954.2  | 962.4  | 911.6  | 740.6 | 541.5 | 544.4 | 522.2 |
| 70°   | 970.6 | 982.8 | 960.9  | 1015.4 | 1055.9 | 1061.1 | 961.7  | 713.2 | 488.1 | 410.6 | 300.0 |
| 72.5° | 993.6 | 999.9 | 1068.1 | 1151.9 | 1197.5 | 1199.0 | 1011.0 | 621.6 | 321.2 | 181.4 | 93.1  |
| 75°   | 780.3 | 786.2 | 1028.0 | 1213.5 | 1281.4 | 1268.4 | 928.7  | 403.5 | 125.0 | 53.0  | 22.3  |
| 77.5° | 435.4 | 437.3 | 638.3  | 980.9  | 1087.0 | 1034.7 | 650.5  | 157.2 | 50.4  | 30.4  | 10.4  |
| 80°   | 119.0 | 139.8 | 236.6  | 483.6  | 663.9  | 651.6  | 309.7  | 51.2  | 32.6  | 23.7  | 4.8   |
| 82.5° | 28.6  | 30.8  | 76.0   | 214.0  | 350.8  | 366.0  | 92.3   | 26.0  | 22.6  | 19.7  | 2.6   |
| 85°   | 10.4  | 11.5  | 23.4   | 104.2  | 180.2  | 165.4  | 27.8   | 13.0  | 16.7  | 15.2  | 1.1   |
| 87.5° | 3.7   | 3.7   | 7.4    | 34.1   | 52.7   | 39.7   | 9.3    | 4.5   | 8.5   | 9.3   | 0.4   |
| 90°   | 0.0   | 0.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 233.6 | 233.6 | 233.6 | 233.6 | 233.6 | 233.6 | 233.6 | 233.6 | 233.6 | 233.6 | 233.6 |
| 2.5°  | 234.4 | 234.4 | 239.6 | 244.0 | 245.5 | 247.4 | 245.5 | 249.6 | 249.2 | 247.4 | 248.1 |
| 5°    | 234.8 | 241.4 | 245.9 | 248.9 | 250.3 | 250.0 | 250.7 | 246.3 | 243.7 | 241.8 | 240.0 |
| 7.5°  | 236.6 | 242.9 | 251.1 | 250.3 | 246.3 | 237.7 | 231.1 | 219.2 | 207.7 | 207.3 | 205.5 |
| 10°   | 242.9 | 248.5 | 253.3 | 250.3 | 235.5 | 209.5 | 188.4 | 172.5 | 158.0 | 151.3 | 152.1 |
| 12.5° | 247.4 | 257.8 | 255.5 | 240.3 | 209.5 | 175.4 | 144.3 | 120.9 | 107.9 | 95.7  | 95.7  |
| 15°   | 256.6 | 260.3 | 259.6 | 225.9 | 177.6 | 136.9 | 99.0  | 75.3  | 61.6  | 56.0  | 55.3  |
| 17.5° | 265.5 | 269.6 | 257.0 | 204.0 | 146.1 | 92.0  | 60.1  | 46.7  | 44.9  | 44.1  | 44.5  |
| 20°   | 276.7 | 277.0 | 254.8 | 182.1 | 109.8 | 58.2  | 43.0  | 41.9  | 42.3  | 41.9  | 41.9  |
| 22.5° | 288.5 | 291.1 | 247.0 | 151.3 | 73.1  | 42.3  | 40.1  | 40.4  | 40.4  | 40.4  | 41.5  |
| 25°   | 304.1 | 300.0 | 234.8 | 122.0 | 47.8  | 38.9  | 38.9  | 39.3  | 39.3  | 39.3  | 39.7  |
| 27.5° | 314.5 | 308.9 | 219.2 | 87.9  | 37.5  | 36.7  | 37.5  | 37.5  | 38.2  | 38.2  | 38.2  |
| 30°   | 336.0 | 321.5 | 199.5 | 56.7  | 33.7  | 34.9  | 35.6  | 36.3  | 36.7  | 37.5  | 37.8  |
| 32.5° | 352.7 | 332.7 | 175.1 | 37.8  | 30.8  | 31.5  | 33.4  | 34.9  | 36.3  | 36.0  | 36.0  |
| 35°   | 383.1 | 350.8 | 152.4 | 30.0  | 28.2  | 28.2  | 30.0  | 32.6  | 34.9  | 35.6  | 35.6  |
| 37.5° | 418.0 | 365.7 | 120.9 | 27.4  | 26.0  | 26.0  | 27.1  | 30.0  | 33.0  | 34.5  | 33.7  |
| 40°   | 446.9 | 382.7 | 89.4  | 25.6  | 24.1  | 24.1  | 24.8  | 27.1  | 30.4  | 33.0  | 33.4  |
| 42.5° | 467.3 | 395.3 | 60.5  | 23.7  | 22.6  | 22.3  | 23.4  | 24.5  | 27.1  | 30.8  | 31.5  |
| 45°   | 485.8 | 402.0 | 37.5  | 21.9  | 21.1  | 21.1  | 21.1  | 22.3  | 24.1  | 27.4  | 28.2  |
| 47.5° | 518.8 | 409.4 | 27.1  | 20.4  | 19.3  | 19.7  | 20.0  | 20.4  | 21.9  | 22.6  | 23.0  |
| 50°   | 546.7 | 415.0 | 22.3  | 18.9  | 18.2  | 18.5  | 18.5  | 18.5  | 19.3  | 18.2  | 18.2  |
| 52.5° | 567.8 | 409.4 | 18.9  | 17.4  | 16.7  | 17.1  | 16.7  | 16.7  | 15.9  | 14.5  | 14.5  |
| 55°   | 583.4 | 399.4 | 15.2  | 15.9  | 15.9  | 15.9  | 15.2  | 14.1  | 12.6  | 11.5  | 11.5  |
| 57.5° | 587.5 | 382.4 | 11.9  | 13.4  | 14.5  | 14.5  | 13.0  | 11.5  | 9.6   | 8.5   | 8.2   |
| 60°   | 581.2 | 345.3 | 8.9   | 9.6   | 11.1  | 11.5  | 10.4  | 8.5   | 6.7   | 5.6   | 5.6   |
| 62.5° | 558.5 | 316.0 | 7.0   | 6.3   | 8.2   | 8.5   | 7.4   | 5.6   | 3.7   | 2.6   | 2.2   |
| 65°   | 515.5 | 270.7 | 5.2   | 4.5   | 5.6   | 5.9   | 4.8   | 2.6   | 1.1   | 0.4   | 0.0   |
| 67.5° | 413.5 | 204.0 | 3.3   | 3.0   | 3.7   | 3.7   | 2.2   | 0.7   | 0.0   | 0.0   | 0.0   |
| 70°   | 228.8 | 114.6 | 2.2   | 1.5   | 1.9   | 1.1   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 66.0  | 32.6  | 1.1   | 0.7   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 17.8  | 7.8   | 0.7   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 7.8   | 3.0   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 3.3   | 1.1   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 1.9   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.7   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)